





# **EMC TEST REPORT**

Applicant:	plicant:   Icon Health and Fitness, Inc.				
Address:	1500 South 1000 West, Logan Utah United States 84321				
Manufacturer or Supplier:	Icon Health and Fitness, Inc.				
Address:	1500 South 1000 West, Logan Uta	h United States 84321			
Product:	Tablet				
Brand Name:	N/A				
Model Name:	MP21-ARGON3-NFC, MP21-ARGON3				
FCC ID:	OMC415325				
Date of tests:	Sep. 27, 2019 ~ Nov. 18, 2019				
The submitted san following standards		peen tested for according to the requirements of the			
	Subpart B, Class A Subpart B, Class B 14				
CONCLUSION: Th	ne submitted sample was found to	COMPLY with the test requirement			
Prepared by Alex Chen  Engineer / Mobile Department  Approved by Luke Lu  Manager / Mobile Department					
Da	Date: Nov. 18, 2019  Date: Nov. 18, 2019  Date: Nov. 18, 2019				
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or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and					

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# **TABLE OF CONTENTS**

RELEASE CONTROL RECORD	3
1 GENERAL INFORMATION	4
1.1 GENERAL DESCRIPTION OF EUT	4
1.2 SUMMARY OF TEST RESULTS	
1.3 MEASUREMENT UNCERTAINTY	5
1.4 DESCRIPTION OF TEST MODES	6
1.5 DESCRIPTION OF SUPPORT UNITS	7
2 EMISSION TEST	8
2.1 CONDUCTED EMISSION MEASUREMENT	8
2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	8
2.1.2 TEST INSTRUMENTS	8
2.1.3 TEST PROCEDURES	9
2.1.4 DEVIATION FROM TEST STANDARD	9
2.1.5 TEST SETUP	10
2.1.6 EUT OPERATING CONDITIONS	
2.1.7 TEST RESULTS	
2.2 RADIATED EMISSION MEASUREMENT	
2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	
2.2.2 TEST INSTRUMENTS	14
2.2.3 TEST PROCEDURE	
2.2.4 DEVIATION FROM TEST STANDARD	
2.2.5 TEST SETUP	
2.2.6 EUT OPERATING CONDITIONS	
2.2.7 TEST RESULTS	18
3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE ELERY THE LAB	JT



# **RELEASE CONTROL RECORD**

ISSUE NO.	O. REASON FOR CHANGE	
FV190926W003	Original release	Nov. 18, 2019

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# 1 GENERAL INFORMATION

# 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tablet			
BRAND NAME	N/A			
MODEL NAME	MP21-ARGON3-NF0	C, MP21-ARGON3		
NOMINAL VOLTAGE	DC 12V			
	BT_LE	GFSK		
MODULATION TYPE	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
	Bluetooth/BT_LE	2402MHz ~ 2480MHz		
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5700MHz 5745 ~ 5805 MHz for 11a/ n(HT20)/ n(HT40)		
HW VERSION	A455C			
SW VERSION	argon			
CABLE SUPPLIED	N/A			
ACCESSORY DEVICES	Refer to note as below			

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. The schematic, structure and hardware of each model is same, the only difference is the model name, it will not affect the test result.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



#### **SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B				
Standard Section	Result			
FCC Part 15,	Conducted Test	Compliance		
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance		
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance		

#### 1.3 **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	150kHz ~ 30MHz	±2.70dB	
	30MHz~1GMHz	±4.98dB	
Dedicted emissions	1GMHz ~6GMHz	±4.70dB	
Radiated emissions	6GMHz ~18GMHz	±4.60dB	
	18GMHz ~40GMHz	±4.12dB	

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# 1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition			
	Radiated emission test			
1	Adapter + WIFI 2.4G Idle + BT Idle + MPG4			
2	Adapter + WIFI 5G Idle + BT Idle + Front Camera On			
Conducted emission test				
1	Adapter + WIFI 2.4G Idle + BT Idle + MPG4			
2	Adapter + WIFI 5G Idle + BT Idle + Front Camera On			

#### NOTE:

- 1. For conducted emission test, test mode 2 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 2 was the worst case and only this mode was presented in this report

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#### 1.5 **DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### **FOR ALL TESTS**

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	1 Laptop Lenovo		Thnikpad L440	R90FTFKP	N/A
2	SD Card	San Disk	Ultra	N/A	N/A
3	Bluetooth Earphone	FAP00	H6080	12098	N/A
4	Wireless AP	ABOCOM	WR224GR	060500749P	N/A
5	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A
6	Adapter	ULLPOWER®	ICP18-090-1500	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS		
1	DC Line: Unshielded, Undetachable, 2.0m		
2	N/A		
3	N/A		
4	N/A		
5	USB Line: Shielded, Detachable 1.5m;		
6	N/A		

Page 7 of 22

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#### 2 EMISSION TEST

#### 2.1 CONDUCTED EMISSION MEASUREMENT

#### 2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 a CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)		
	Quasi-peak	Average	
0.15 ~ 0.5	66 to 56	56 to 46	
0.5 ~ 5	56	46	
5 ~ 30	60	50	

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 b CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)		
	Quasi-peak	Average	
0.15 ~ 0.5	79	66	
0.5 ~ 30	73	60	

**NOTE**: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,19	Feb. 25, 20
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,19	Feb. 25, 20

**NOTE:** 1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



# 2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

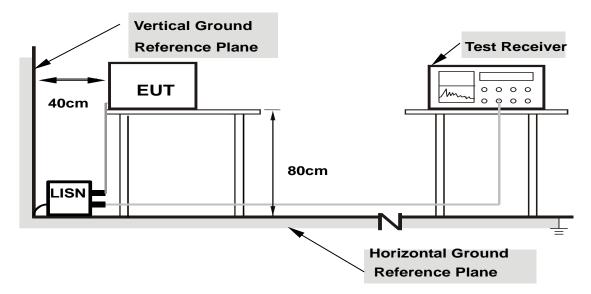
#### 2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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# 2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

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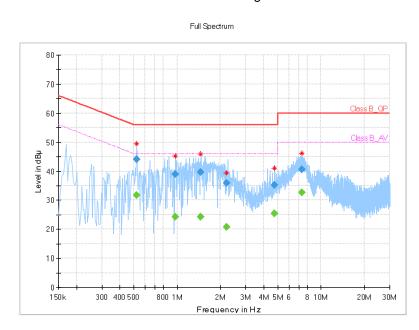
#### 2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 52RH	TESTED BY	Chase

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.524000		31.79	46.00	-14.21	L1	ON	10.0
0.524000	44.08		56.00	-11.92	L1	ON	10.0
0.972000		24.14	46.00	-21.86	L1	ON	10.1
0.972000	38.89		56.00	-17.11	L1	ON	10.1
1.460000		24.23	46.00	-21.77	L1	ON	10.1
1.460000	39.63		56.00	-16.37	L1	ON	10.1
2.196000		20.76	46.00	-25.24	L1	ON	10.1
2.196000	35.92		56.00	-20.08	L1	ON	10.1
4.736000		25.39	46.00	-20.61	L1	ON	10.2
4.736000	35.29		56.00	-20.71	L1	ON	10.2
7.368000		32.64	50.00	-17.36	L1	ON	10.3
7.368000	40.56		60.00	-19.44	L1	ON	10.3

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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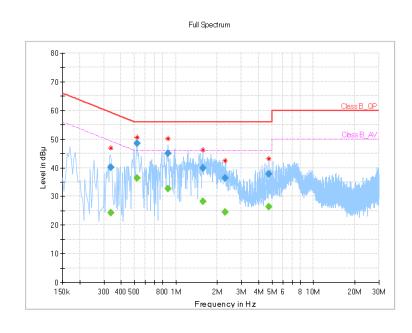


TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 52RH	TESTED BY	Chase

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.336000		24.33	49.30	-24.97	N	ON	9.9
0.336000	40.20		59.30	-19.10	N	ON	9.9
0.524000		36.28	46.00	-9.72	N	ON	9.9
0.524000	48.59		56.00	-7.41	N	ON	9.9
0.880000		32.68	46.00	-13.32	N	ON	10.0
0.880000	45.07		56.00	-10.93	N	ON	10.0
1.568000		28.16	46.00	-17.84	N	ON	10.0
1.568000	39.96		56.00	-16.04	N	ON	10.0
2.292000		24.53	46.00	-21.47	N	ON	10.0
2.292000	36.39		56.00	-19.61	N	ON	10.0
4.748000		26.30	46.00	-19.70	N	ON	10.1
4.748000	37.76		56.00	-18.24	N	ON	10.1

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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#### 2.2 RADIATED EMISSION MEASUREMENT

## 2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dBµV/m)								
Frequencies (MHz)	FCC 15B / ICES-003, Class B							
30-88	49	40						
88-216	53.5	43.5						
216-960	56	46						
960-1000	59.5	54						
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74						

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower

**NOTE:** 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.



## 2.2.2 TEST INSTRUMENTS

Frequency range below 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
3m Semi-anechoic	ETS-LINDGREN	0m*6m*6m	Euroshieldpn-	Feb. 26,19	Feb. 25,20	
Chamber	E I S-LINDGKEN	9111 6111 6111	CT0001143-1216	reb. 20,19		
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20	
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20	
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20	

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN		Euroshieldpn- CT0001143-1216	Feb. 26,19	Feb. 25,20
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25, 20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier (18GHz-40GHz)	EMSI	EMC 184045	980102	Dec. 27,18	Dec. 26,19

NOTE: 1. The test was performed in 3m chamber.

- 2. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



#### 2.2.3 TEST PROCEDURE

#### <Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

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- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



#### <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

#### NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7. Margin value = Emission level Limit value.

#### 2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

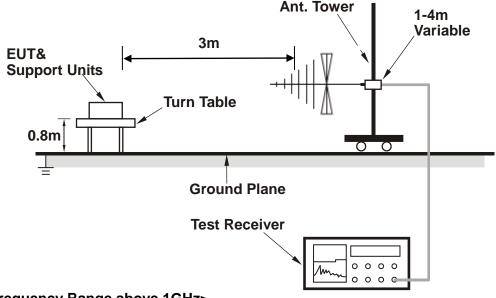
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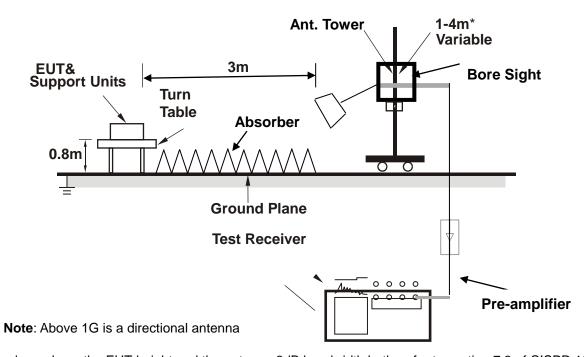


## 2.2.5 TEST SETUP

#### <Frequency Range below 1GHz>



<Frequency Range above 1GHz>



depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

## 2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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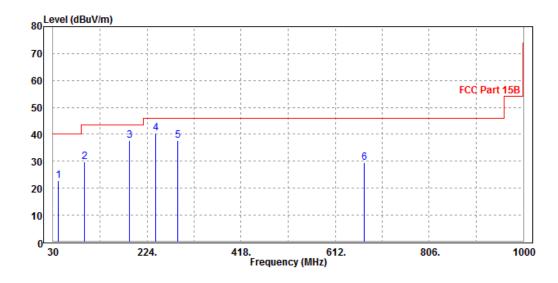


## 2.2.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Star Le		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
40.67	22.87	46.74	40	-17.13	12.7	0.93	37.5	100	0	QP	
94.99	29.87	56.69	43.5	-13.63	9.1	1.29	37.21	100	0	QP	
187.14	37.75	62.15	43.5	-5.75	10.48	1.73	36.61	100	0	QP	
242.43	40.52	62.48	46	-5.48	12.67	2	36.63	100	0	QP	
288.02	37.67	58.39	46	-8.33	13.84	2.17	36.73	100	0	QP	
672.14	29.58	41.45	46	-16.42	22.19	3.43	37.49	100	0	QP	

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  - 2. Negative sign (-) in the margin column signify levels below the limit.
  - 3. Frequency range scanned: 30MHz to 1000MHz.
  - 4. Only emissions significantly above equipment noise floor are reported.



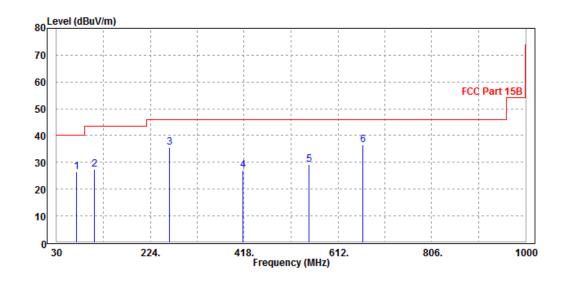
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TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Star Le		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
71.71	26.32	54.73	40	-13.68	7.72	1.2	37.33	100	360	QP	
108.57	27.45	53.88	43.5	-16.05	9.33	1.37	37.13	100	360	QP	
263.77	35.47	56.58	46	-10.53	13.48	2.09	36.68	100	360	QP	
416.06	27.11	43.77	46	-18.89	17.52	2.68	36.86	100	360	QP	
551.86	29.26	43.94	46	-16.74	19.43	3.08	37.19	100	360	QP	
663.41	36.58	48.72	46	-9.42	21.94	3.39	37.47	100	360	QP	

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  - 2. Negative sign (-) in the margin column signify levels below the limit.
  - 3. Frequency range scanned: 30MHz to 1000MHz.
  - 4. Only emissions significantly above equipment noise floor are reported.



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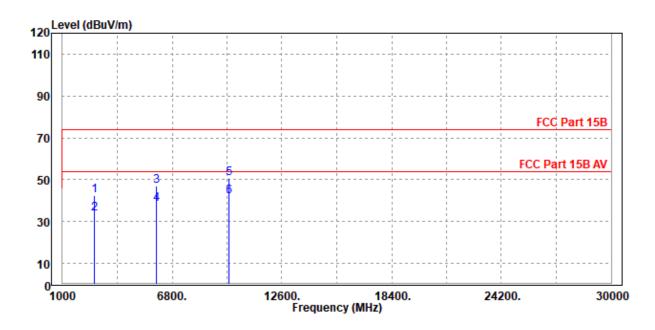


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-30 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Star Le		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2700	42.39	49.86	74	-31.61	33.34	5.21	46.02	100	123	Peak
2700	33.79	41.26	54	-20.21	33.34	5.21	46.02	100	123	Average
5964	46.82	48.48	74	-27.18	36.49	7.97	46.12	100	267	Peak
5964	38.49	40.15	54	-15.51	36.49	7.97	46.12	100	267	Average
9806	50.42	46.17	74	-23.58	38.68	10.77	45.2	100	98	Peak
9806	41.8	37.55	54	-12.2	38.68	10.77	45.2	100	98	Average

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 1GHz to 30GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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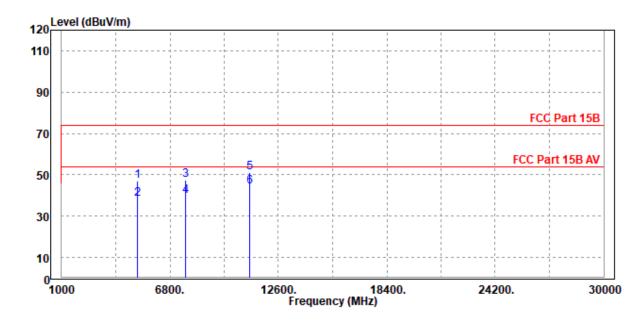


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-30 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Star Le		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5080	46.88	49.6	74	-27.12	36.25	7.41	46.38	100	198	Peak
5080	38.51	41.23	54	-15.49	36.25	7.41	46.38	100	198	Average
7647	47.56	46.28	74	-26.44	37.9	9.02	45.64	100	226	Peak
7647	39.52	38.24	54	-14.48	37.9	9.02	45.64	100	226	Average
11047	51	46.36	74	-23	39.96	10.81	46.13	100	54	Peak
11047	44.28	39.64	54	-9.72	39.96	10.81	46.13	100	54	Average

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 1GHz to 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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# 3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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